

# COMPUTATIONS AND SUB-SUMMARIES

QUANTITY CALCULATIONS

BY     DATE    

CHKD.     DATE    

WOODRUFF, INC.

F.A.S.A. REGION	STATE	PROJECT	
5	OHIO		

LAKE COUNTY

LAK-20-17.14

609 CURB , STANDARD TYPE 2-A					
STATION		SIDE	LENGTH LIN. FT.	REMARKS	
FROM	TO				
13+90	18+66	LT.	466.5	Less 6' @ No. 3 C.B. & 3' @ No. 3-A C.B.	
13+90	18+66	RT.	466.5	Less 6' @ No. 3 C.B. & 3' @ No. 3-A C.B.	
23+14.56	27+65	LT.	450.44	Less 3.5' Per Each No. 3-A C.B.	
23+14.56	23+67.15	RT.	52.59		
23+67.15	24+86.78	RT.	284	RT 20 - CASEMENT INTERSECTION	
24+86.78	27+65	RT.	278.22		
<b>TOTAL</b>			1999		

605 6" UNCLASSIFIED PIPE UNDERDRAINS					
All Quantities Reflect a 10' Reduction Per C.B. on Continuous Grade & 20' Reduction Per C.B. in Sag.					
STATION		SIDE	LENGTH LIN. FT.	REMARKS	
FROM	TO				
13+90	18+66	LT.	446.00		
13+90	18+66	RT.	446.00		
23+20	27+25	LT.	375.00		
<b>TOTAL</b>			1267		

202 PAVEMENT REMOVED					
STATION		LENGTH LIN. FT.	WIDTH LIN. FT.	AREA SQ. YDS.	REMARKS
FROM	TO				
U.S. RT. 20 WEST APPROACH					
		477	24	1272	
EAST APPROACH					
		428	VARIES	2820	
<b>TOTAL</b>				4092	

611 REINFORCED CONCRETE APPROACH SLAB (T=15")					
STATION		LENGTH LIN. FT.	WIDTH LIN. FT.	AREA SQ. YDS.	REMARKS
FROM	TO				
U.S. RT. 20 WEST APPROACH					
18+86	18+91			81	
EAST APPROACH					
22+89.56	23+14.56			94	
<b>TOTAL</b>				175	

203 SUBGRADE COMPACTION					
STATION		LENGTH LIN. FT.	WIDTH LIN. FT.	AREA SQ. YDS.	REMARKS
FROM	TO				
U.S. RT. 20					
13+90	18+66	476	32	1692.44	
23+14.56	24+48.63	134.07	40.35	601.08	
10+22.84	10+88.45	65.21	VARIES	376.44	
24+48.63	25+66.14	117.51	44	574.49	
25+66.14	27+65.00	198.86	40	883.82	
CASEMENT AVENUE					
10+88.45	11+79.08	91.63	VARIES	101.06	
11+79.08	13+18.37	139.29	28	433.35	
13+18.37	13+88.37	70	26	202.22	
13+88.37	14+50	61.63	24	164.35	
ERIE STREET					
1+16	5+00	384	24	1024.00	
<b>TOTAL</b>				6054	

ITEM 203 EARTHWORK & EROSION CONTROL SUB-SUMMARIES														
SHEET NO.	STATION	203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	203 EMBANKMENT	203 EXCAVATION AS PER PLAN "A"	203 EMBANKMENT AS PER PLAN "A"	203 EMBANKMENT AS PER PLAN "B"	203 EMBANKMENT AS PER PLAN "B"	659 SEEDING & MULCHING	670 SLOPE EROSION PROTECTION	670 DITCH EROSION PROTECTION	207 TEMPORARY SEEDING & MULCHING	TOTAL 659 670 670 207 ROWS TO LEFT	659 COMMERCIAL FERTILIZER	659 AGRICULTURAL LIMING
		CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.		TONS	TONS
10		10												
18		3440	5002				1960		1141			1141	0.10	0.51
U.S. 20														
19	13+90	14+00	4	6				54				54	0.00	0.02
20	14+00	16+00	40	1076				1509				1509	0.14	0.68
21	16+00	17+50	0	3086	1861	513	1723	1699			1079	2778	0.25	1.25
22	17+50	18+81 RT	0	6412	2949	1374	3832	1912			1802	3714	0.33	1.67
23	23+30	24+24.51	2402	226				2338				2338	0.21	1.05
24	24+24.51	26+00	2723	1713				4059				4059	0.37	1.83
25	26+00	29+00	0	2,485				1851				1851	0.17	0.83
CASEMENT AVENUE														
26	0+88.45	11+00	293	0				108				108	0.01	0.05
27	11+00	13+50	2640	120				2402				2402	0.22	1.08
28	13+50	14+75	350	0				777				777	0.07	0.34
ERIE STREET EXTENSION														
30	0+60	3+50	642	2260				2249				2249	0.20	1.01
31	3+50	5+25	417	722				1395				1395	0.13	0.63
33				3481				820		189		1009	0.09	0.45
36	10+23	10+88	2350					592				592	0.05	0.27
38										125		125	0.01	0.06
<b>TOTAL</b>			15,311	26,589	4810	1,887	5,555	1,960	21,765	1,141	314	2881	2.35	11.75

SCALE \_\_\_\_\_ DATE \_\_\_\_\_  
 MADE \_\_\_\_\_ DATE \_\_\_\_\_  
 TRCD. \_\_\_\_\_ DATE \_\_\_\_\_  
 CKD. \_\_\_\_\_ DATE \_\_\_\_\_

**WOODRUFF, INC.**  
 CONSULTING ENGINEERS  
 CLEVELAND OHIO

U.S. 20 OVER GRAND RIVER